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II. AMENDMENT TO THE CLAIMS:

[C1] (cancelled)

[C2] (currently amended) The system of claim [4] 7 including the further steps of

[conducting a computer simulation with respect to the assembly,] refining the assembly

in view of the simulation and updating the data associated with the refined assembly

before the record of the assembly is returned to a [in the parts data] list [maintained]

recorded in the library.

[C3] (currently amended) The system of claim [4] 7 in which the virtual [computer]

simulation [format data record] produces a data record for meshed parts that includes

an association of [material] properties of the type of material from which a part is formed

[to the meshed parts to distinguish between different materials].

[C4] (currently amended) The system of claim [4] 7 in which the number of mesh

data elements [recorded] utilized in the record of [to simulate] a part to be processed

ranges from approximately 100 points to approximately 100,000 or more points.

[C5] (currently amended) The system of claim 2 in which the [computer] virtual

simulation [format data record] is [accessed-for-evaluation] conducted with respect to

one or more than one of crash impact, durability and noise.

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[C6] (cancelled)

(new) A white body modeling system integrating information from disparate

sources involved in a process involving a task group associated with a mechanical

assembly comprising:

a library comprising data files that record in a format corresponding to one or

more lists: 1) parts and the characteristics of the parts retrievable from a work station in

the task group upon the selection of a part; and 2) welds and characteristics of welds,

retrievable from a work station in the task group upon the selection of a weld;

a network linking the library data files to work stations of task group members

involved with a mechanical assembly;

work stations associated with the task group members for 1) selecting a plurality

of parts from the one or more than one parts list in the library; 2) extracting the data files

from the library associated with the parts selected; 3) associating the selected parts and

their data files in an assembly in which the selected parts are to be conjoined; 4)

processing the selected parts through a mesh process; 5) saving the assembly mesh

data in a database; 6) selecting a weld and the characteristics of the weld to be utilized

to conjoin selected parts in an assembly; 7) building the assembly by associating mesh

data with weld data; 8) translating the assembly so built into a virtual simulation format

data record; 9) performing a virtual simulation of the assembly; 10) recording the

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characteristics of the assembly in the simulation; and 11) returning a record of the

assembly and the characteristics of the assembly simulation to the library such that

records of the assembly and the characteristics of assembly simulation become

available as a data file record of a part for retrieval in the library.

[C8] (new) A white body modeling system integrating information from disparate

sources generated by a task group associated with a mechanical assembly comprising:

a library comprising data files that record in a format corresponding to one or

more lists: 1) parts and the characteristics of the parts, retrievable from a work station in

the task group upon the selection of a part from a list and 2) welds and characteristics of

welds, retrievable from a work station in the task group upon the selection of a weld;

a network linking the library data files to work stations of members of a task

group involved with a mechanical assembly;

work stations linked to the network for 1) selecting parts from the one or more

than one lists in the library; 2) extracting the data files from the library associated with

the parts selected; 3) associating the selected parts and their data files in an assembly

in which the selected parts are to be conjoined; 4) processing the selected parts through

a mesh process; 5) saving the assembly mesh data in a database; 6) selecting from the

one or more than one lists in the library a weld to be utilized to conjoin selected parts in

an assembly; 7) building the assembly by associating mesh data with weld data; 8)

translating the assembly so built into a virtual simulation format data record; 9)

performing a virtual simulation of the assembly with respect to predetermined

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parameters; 10) recording the characteristics of the assembly in the simulation; and 11)

returning a record of the data files of the assembly and the characteristics of the virtual

simulation of the assembly to the library; and

a continuous loop in the library for maintaining a feedback record of the

characteristics of the assembly after a simulation of the assembly such that the

assembly, the characteristics of the assembly and the characteristics of the assembly

simulation of the assembly become available for retrieval from the library as a

selectable part.

[C9] (new) The system of claim 8 wherein the feedback to the library through the

continuous loop ultimately results in a tested and refined assembly approved for

commercial release.

[C10] (new) The system of claim 8 wherein the library data file for a part includes tags

for connection locations between parts selected to be conjoined in an assembly.

[C11] (new) The system of claim 9 wherein the library data files for a part or an

assembly are refined in an actively updated interactive database within the library

commonly accessible by work stations associated with members of the task group from

the beginning of a design process to the end of a design process.

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[C12] (new) The system of claim 8 wherein of the characteristics of an assembly of

selected parts that are conjoined are recorded for one or more than one of a noise

simulation, crash simulation and durability simulation.

[C13] (new) The system of claim 8 wherein, in the process of building the assembly by

associating mesh data with weld data relating to the manner in which conjoined parts

are welded in the assembly, imperfections in the mesh are identified and fixed.

[C14] (new) The system of claim 8 wherein in the continuous loop, each modification

made in any stage of building and evaluating an assembly is recorded and is separately

selectable as a discrete step in a continuum of testing and improvement in a design

cycle.

[C15] (new) The system of claim 8 wherein the network links more than one of a design

work station, an assembly work station and a simulation work station.

[C16] (new) The system of claim 8 wherein the network links a design work station, an

assembly work station and a simulation testing work station.

[C17] (new) The system of claim 8 wherein the task group is associated with a motor

vehicle assembly.

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[C18] (new) The system of claim 7 wherein the network links more than one of a design work station, an assembly work station and a simulation work station.

[C19] (new) The system of claim 7 wherein the network links a design work station, an assembly work station and a simulation testing work station.

[C20] (new) The system of claim 7 wherein the task group is associated with a motor vehicle assembly.